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NOTICE OF ALLOWANCE AND FEE(S) DUE

26181

7590

02/07/2002

FISH & RICHARDSON P.C. 3300 DAIN RAUSCHER PLAZA **60 SOUTH SIXTH STREET** MINNEAPOLIS, MN 55402

EXA	AMINER
RILEY	Y, SHAWN
ART UNIT	CLASS-SUBCLASS

323-282000

2838 DATE MAILED: 02/07/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/475,713	12/30/1999	MARCO A. ZUNIGA	09464-010001	6758

TITLE OF INVENTION: SWITCHING REGULATOR WITH MULTIPLE POWER TRANSISTOR DRIVING VOLTAGES

TOTAL CLAIMS	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
20	nonprovisional	YES	\$640	\$0	\$640	05/07/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY

A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



PART B - FEE(S) TRANSMITTAL



Complete and mail this form, together with applicable fee(s), to:

Box ISSUE FEE

Assistant Commissioner for Patents

Washington, D.C. 20231

MAILING INSTRUCTIONS: This form should

26181 7590 02/07/2002 mailings of other accoording of first & RICHARDSON P.C. 3300 DAIN RAUSCHER PLAZA 60 SOUTH SIXTH STREET MINNEAPOLIS, MN 55402 APPLICATION NO. FILING DATE APPLICATION NO. FILING DATE O9/475,713 12/30/1999 MARCO A. ZUNIGA TITLE OF INVENTION: SWITCHING REGULATOR WITH MULTIPLE POWER TRANSISTOR DRIVING TOTAL CLAIMS APPLN. TYPE SMALL ENTITY ISSUE FEE PUBLICATION OF TITLE OF INVENTION: SWITCHING REGULATOR WITH MULTIPLE POWER TRANSISTOR DRIVING TOTAL CLAIMS APPLN. TYPE SMALL ENTITY ISSUE FEE PUBLICATION OF TITLE OF INVENTION: SWITCHING REGULATOR WITH MULTIPLE POWER TRANSISTOR DRIVING TOTAL CLAIMS APPLN. TYPE SMALL ENTITY ISSUE FEE PUBLICATION OF TITLE OF INVENTION: SWITCHING REGULATOR WITH MULTIPLE POWER TRANSISTOR DRIVING TOTAL CLAIMS APPLN. TYPE SMALL ENTITY ISSUE FEE PUBLICATION OF TITLE OF INVENTION: SWITCHING REGULATOR WITH MULTIPLE POWER TRANSISTOR DRIVING TOTAL CLAIMS APPLN. TYPE SMALL ENTITY ISSUE FEE PUBLICATION OF TITLE OF INVENTION: SWITCHING REGULATOR WITH MULTIPLE POWER TRANSISTOR DRIVING TOTAL CLAIMS APPLN. TYPE SMALL ENTITY ISSUE FEE PUBLICATION OF TITLE OF INVENTION: SWITCHING REGULATOR WITH MULTIPLE POWER TRANSISTOR DRIVING TOTAL CLAIMS APPLN. TYPE SMALL ENTITY ISSUE FEE PUBLICATION OF TITLE OF INVENTION: SWITCHING REGULATOR WITH MULTIPLE POWER TRANSISTOR DRIVING TOTAL CLAIMS APPLN. TYPE TOTAL CLAIMS APPLN. TYPE SMALL ENTITY ISSUE FEE PUBLICATION OF TITLE OF INVENTION: SWITCHING REGULATOR WITH MULTIPLE POWER TRANSISTOR DRIVING TOTAL CLAIMS APPLN. TYPE TOTAL CLAIMS	(Depositor's name) . (Signature) (Date) ATTORNEY DOCKET NO. CONFIRMATION NO. 09464-010001 6758
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EXAMINER ART UNIT CLASS-SUBCLASS	
RILEY, SHAWN 2838 323-282000	
CFR 1.363). Use of PTO form(s) and Customer Number are recommended, but not required. Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. The planting of the pater the names of up to 3 regists or agents OR, alternatively single firm (having as a rattorney or agent) and the registered patent attorneys of is listed, no name will be printing on the pater than the p	(2) the name of a member a registered e names of up to 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclus been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE) Please check the appropriate assignee category or categories (will not be printed on the patent)	m is NOT a substitute for filing an assignment. E OR COUNTRY)
A THE CHARLES	idual corporation or other private group entity government
 4a. The following fee(s) are enclosed: 4b. Payment of Fee(s): □ Issue Fee □ A check in the amount of the fee(s)) is enclosed
□ Publication Fee □ Payment by credit card. Form PTO	
Deposit Account Number	rized by charge the required fee(s), or credit any overpayment, to (enclose an extra copy of this form).
The COMMISSIONER OF PATENTS AND TRADEMARKS is requested to apply the Issue Fee and Publica application identified above.	ation Fee (if any) or to re-apply any previously paid issue fee to the
(Authorized Signature) (Date)	
NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending on the needs of the individual case. Any comments on the amount of time required to complete this form should be sent to the Chief Information Officer, United States Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND FEES AND THIS FORM TO: Box Issue Fee, Assistant Commissioner for Patents, Washington, D.C. 20231	

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APPLICATION NO	. F	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/475,713		12/30/1999	MARCO A. ZUNIGA	09464-010001 675	
26181	7590	02/07/2002	•	EXAMIN	ER
FISH & RICHARDSON P.C. 3300 DAIN RAUSCHER PLAZA 60 SOUTH SIXTH STREET			RILEY, SHA	AWN	
			ART UNIT	PAPER NUMBER	
MINNEAPOL UNITED STA		02		2838	
ONTED STATES		•		DATE MAILED: 02/07/2002	

Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

***·	Application No.	Applicant(s)	
Notice of Allowability	09/475,713	ZUNIGA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Shawn Riley	2838	
The MAILING DATE of this communication application application application application application being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8: NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED in 5) or other appropriate commu RIGHTS. This application is so and MPEP 1308.	this application. If not include nication will be mailed in due	ed course. THIS
 This communication is responsive to 15 January 2002 re The allowed claim(s) is/are 1-10 and 15-24. 	sponse to Petition.		
3. ☐ The drawings filed on are accepted by the Examir	ner		
Acknowledgment is made of a claim for foreign priority uses a) □ All b) □ Some* c) □ None of the:		(f).	
1. Certified copies of the priority documents have	ve been received.		
2. Certified copies of the priority documents have		1 No	
3. Copies of the certified copies of the priority d International Bureau (PCT Rule 17.2(a)).	• •		ion from the
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priority		* * * * * * * * * * * * * * * * * * * *	
(a) L The translation of the foreign language provisional	• •		
6. Acknowledgment is made of a claim for domestic priority	under 35 U.S.C. §§ 120 and/o	r 121.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT or	of this communication to file a file file a	reply complying with the requi	rements noted EXTENDABLE.
7. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gives real	mitted. Note the attached EXA ison(s) why the oath or declara	MINER'S AMENDMENT or Nation is deficient.	OTICE OF
 CORRECTED DRAWINGS must be submitted. (a) ☐ including changes required by the Notice of Draftspe 1) ☐ hereto or 2) ☐ to Paper No 	erson's Patent Drawing Review	v (PTO-948) attached	
(b) ☐ including changes required by the proposed drawing	correction filed which	has been approved by the E	vaminer
(c) ☐ including changes required by the proposed drawing			
(o) Including changes required by the attached Examine	is a Amendment / Comment of	in the Office action of Paper P	NO,
Identifying indicia such as the application number (see 37 CFR of each sheet. The drawings should be filed as a separate pape	1.84(c)) should be written on the r with a transmittal letter addres	e drawings in the top margin (no ssed to the Official Draftsperson	ot the back) n.
9. DEPOSIT OF and/or INFORMATION about the depositached Examiner's comment regarding REQUIREMENT FOR	osit of BIOLOGICAL MATE THE DEPOSIT OF BIOLOGIC	RIAL must be submitted. N AL MATERIAL.	ote the
Attachment(s)			
Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO-1449), Paper No Examiner's Comment Regarding Requirement for Deposit of Biological Material	4∐ Interview 6⊠ Examiner	Informal Patent Application (P Summary (PTO-413), Paper N 's Amendment/Comment 's Statement of Reasons for A Shawn Riley Primary Examiner Art Unit: 2838	No

Notice of Allowability

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Notice of Allowance with Examiner's Amendment

A petition filed on the 26 July 2001, requesting withdrawal of the previous restriction has been granted. A new restriction has been set forth below.

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - 1. Claims 1-10 and 15-18, drawn to a regulator with at least a first and second transistor, classified in class 323, subclass 224.
 - II. Claims 11-14, drawn to a voltage regulator comprising a single transistor, classified in class 323, subclass 223The inventions are distinct, each from the other because of the following reasons:
- Inventions I and II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention I has separate utility such as a regulator with sinking capability. See MPEP § 806.05(d).
- 2. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Applicant has elected, via a telephonic restriction on the 18 January 2002, to proceed with claims of Group I and cancelled the claims of Group II.

Application/Control Number: 09/475,713

Art Unit: 2838

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview on 17 January 2002 with Attorney Goren.

The application has been amended as follows:

Claims 11-14 have been cancelled.

Conclusion

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Examiner Riley whose telephone number is 703.305.3487. The Examiner can normally be reached Monday through Friday from 5:30-2:00 p.m. Eastern Standard Time. The fax phone number for this Group is 703.305.7731 or 7732. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is 703.308.1782.

Shawn Riley Primary Examiner